



P55434US00.ST25v2.txt
SEQUENCE LISTING

<110> Verheije, Monique H.

<120> Deletions in Arterivirus replicons

<130> P55434US

<140> US 10/719,895

<141> 2003-12-21

<150> EP 01201921.2

<151> 2001-05-21

<160> 52

<170> PatentIn version 3.1

<210> 1

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<212> RNA

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<223> 34-nucleotide stretch (nucleotides 14653 - 14686) in ORF7 of
Lelystad virus

<400> 1

auggccagcc agucaaucaa cugugccagu ugcu

34

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<223> hairpin within the 3' UTR of Lelystad virus

<400> 2

aggugaauagg ccgcgauugg cguguggccu cugagucacc u

41

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<223> 34-nucleotide stretch (nucleotides 14653 - 14686) in ORF7 of Lelystad virus

<400> 3

atggccagcc agtcaatcaa ctgtgccagt tgct

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<212> PRT

<213> Porcine reproductive and respiratory syndrome virus

<220>

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<222> (1)..(128)

<223> N protein

<400> 4

Met Ala Gly Lys Asn Gln Ser Gln Lys Lys Lys Lys Ser Thr Ala Pro
1 5 10 15

Met Gly Asn Gly Gln Pro Val Asn Gln Leu Cys Gln Leu Leu Gly Ala
20 25 30

Met Ile Lys Ser Gln Arg Gln Gln Pro Arg Gly Gly Gln Ala Lys Lys
35 40 45

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Lys Lys Pro Glu Lys Pro His Phe Pro Leu Ala Ala Glu Asp Asp Ile
50 55 60

Arg His His Leu Thr Gln Thr Glu Arg Ser Leu Cys Leu Gln Ser Ile
65 70 75 80

Gln Thr Ala Phe Asn Gln Gly Ala Gly Thr Ala Ser Leu Ser Ser Ser
85 90 95

Gly Lys Val Ser Phe Gln Val Glu Phe Met Leu Pro Val Ala His Thr
100 105 110

Val Arg Leu Ile Arg Val Thr Ser Thr Ser Ala Ser Gln Gly Ala Ser
115 120 125

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Met Pro Asn Asn Asn Gly Lys Gln Gln Lys Arg Lys Lys Gly Asp Gly
1 5 10 15

Gln Pro Val Asn Gln Leu Cys Gln Met Leu Gly Lys Ile Ile Ala Gln
20 25 30

Gln Asn Gln Ser Arg Gly Lys Gly Pro Gly Lys Lys Asn Lys Lys Lys
35 40 45

Asn Pro Glu Lys Pro His Phe Pro Leu Ala Thr Glu Asp Asp Val Arg
50 55 60

His His Phe Thr Pro Ser Glu Arg Gln Leu Cys Leu Ser Ser Ile Gln
65 70 75 80

Thr Ala Phe Asn Gln Gly Ala Gly Thr Cys Thr Leu Ser Asp Ser Gly
85 90 95

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Arg Ile Ser Tyr Thr Val Glu Phe Ser Leu Pro Thr His His Thr Val
 100 105 110

Arg Leu Ile Arg Val Thr Ala Ser Pro Ser Ala
 115 120

<210> 6

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<222> (1)..(122)

<223> 3' UTR

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gggcgatcac atgggggtca tacttaatca ggcaggaacc atgtgaccga aattaataaaa	120
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ctgattgaca ttgtgcctct aagtcaccta ttcaattagg gcgaccgtgt ggggggtgaga	120
tttaattggc gagaaccatg cggccgaaat taataataaaa	159

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18

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<223> Primer LV20

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 cctgattaaa agcttgaccc c

21

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<400> 10
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21

<210> 11
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<400> 11

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47

<210> 12

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acgtgcttaa ttaaccttga ctggcggatg taga

34

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tgcaagttaa ttaaggtgaa tggccgcga

29

<210> 14

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<212> DNA

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<223> Primer LV214

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26

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26

<210> 16

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<400> 16

tgcaagttaa ttaagcctct gagtca

26

<210> 17

<211> 25

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<400> 17

gactgttttaa ttaagcgat gtaga

25

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<223> Primer LV264

<400> 18
gactgttaat taagatgtag aagtc

25

<210> 19

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<400> 19
gactgttaat taagtagaag tcacg

25

<210> 20

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<223> Primer LV266

<400> 20
gactgttaat taagaagtca cgcga

25

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cagccagggg aaaatgtggc

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<210> 22

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<223> Primer 12U94R

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<210> 23
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<400> 23
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<400> 24
 agcgggaagg atccaccgag tat 23

<210> 25
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<223> Primer LV17

<400> 25

cccttgacga gctcttcggc

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<210> 26

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61

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20

<210> 28

<211> 22

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<400> 28

gacaagatca tcagagtata cc

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<223> Primer LV84

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agagcttcag gacactgacc

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<210> 30

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<212> DNA

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<223> Primer LV112

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36

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<223> Primer LV118

<400> 31

ttaccaccta ctctccaccg

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<210> 32

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accagagcca gaagaaaaag aaaagtacag ctgggtgcaa tgat

44

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44

<210> 35

<211> 44

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<400> 35

accagagcca gaagaaaaag aaaagtacag cttcaatcaa ctgt

44

P55434US00.ST25v2.txt

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<211> 44

<212> DNA

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<223> Primer LV154

<400> 36

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<210> 37

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<223> Primer LV188

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<211> 36

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<223> Primer LV189

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<211> 35

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<223> Primer LV190

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<210> 40

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<210> 41

<211> 33

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<223> Primer LV195

<400> 41

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<211> 42

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<400> 42

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42

<210> 43
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<400> 43
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31

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<400> 45
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<400> 46

acgtgcttaa ttaaattgtca tcttcagcag ccag

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<210> 47

<211> 34

<212> DNA

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<223> Primer LV202

<400> 47

acgtgcttaa ttaaccgctg gatgaaagcg acgc

34

<210> 48

<211> 34

<212> DNA

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<223> Primer LV203

<400> 48

acgtgcttaa ttaacgcact gtatgagcaa ccgg

34

<210> 49

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<223> Primer LV216

<400> 49

accagagcca gaagaaaaag aaaagtacag ctccgatggg gaggggtgcaa tgat

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P55434US00.ST25v2.txt

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<211> 42

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42

<210> 51

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<223> Primer LV269

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42

<210> 52

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<223> Primer LV270

<400> 52

tgcaagttaa ttaaacagtc aggtgaatgg ccgcctaacg cgtgtggcct c

51